



[Name of Document] Abstract

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[Purpose] The purpose is to reduce noises due to friction in measurement of the blood pressure using the inflatable cuff including a first inflatable bag, a second inflatable bag and a shield plate.

[Solution] The inflatable cuff for blood pressure measurement including a first inflatable bag 28 which is inflatable to press an arterial vessel of a body portion of a living subject and stop flow of blood in the arterial vessel which the inflatable cuff is adapted to be wound around the body portion, a second inflatable bag 26 for sensing a pulse wave propagating along the arterial vessel, the second inflatable bag is supported by the inflatable cuff such that the second inflatable bag 26 is located inside a downstream-side portion of the first inflatable bag 28 as seen in the direction in which the blood flows in the arterial vessel, and which has a dimension as measured in said direction that is smaller than a dimension of the first inflatable bag as measured in said direction, a shield plate 40 disposed between the first inflatable bag 28 and the second inflatable bag 26 so as to prevent an oscillation of the first inflatable bag 28 from propagating to the second inflatable bag 26, and a separating cloth 38 disposed between the shield plate 40 and the second inflatable bag 26 for preventing a slide contact of the shield plate 40 with the second inflatable bag 26. Thus the low friction of the separating cloth 38 reduces noises produced in blood pressure measurement by friction between the separating cloth 38 and the shield plate 40 and between the separating cloth 38 and the second inflatable bag 26 upon contact, on the grounds that friction coefficients between the separating cloth 38 and the shield plate 40 and between the separating cloth 38 and the second inflatable bag 26 are less than that between the shield plate 40 and the second inflatable bag 26.

[Selected drawing] Figure 3